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## RAW SEQUENCE LISTING

DATE: 02/07/2002

PATENT APPLICATION: US/10/044,967

TIME: 09:03:27

Input Set : N:\Crf3\RULE60\10044967.raw

Output Set: N:\CRF3\02072002\J044967.raw

1 <110> APPLICANT: Shokat, Kevan M.  
 2 <120> TITLE OF INVENTION: High Affinity Kinase Inhibitors for Target Validation  
 3 and Uses Thereof  
 4 <130> FILE REFERENCE: 51538-5001-US  
 5 <140> CURRENT APPLICATION NUMBER: US/10/044,967  
 6 <141> CURRENT FILING DATE: 2002-01-15  
 8 <150> PRIOR APPLICATION NUMBER: 09/480,993  
 9 <151> PRIOR FILING DATE: 2000-01-11  
 12 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/115,340  
 W--> 13 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-11  
 14 <160> NUMBER OF SEQ ID NOS: 20  
 15 <170> SOFTWARE: PatentIn Ver. 2.1  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 27  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Homo sapiens  
 21 <400> SEQUENCE: 1  
 22 Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys Asp Asn Ser  
 23 1 5 10 15  
 24 Asn Leu Tyr Met Val Met Glu Tyr Val Pro Gly  
 25 20 25  
 27 <210> SEQ ID NO: 2  
 28 <211> LENGTH: 27  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: Rous sarcoma virus  
 31 <400> SEQUENCE: 2  
 32 Asn His Pro Asn Ile Val Lys Leu Leu Asp Val Ile His Thr Glu Asn  
 33 1 5 10 15  
 34 Lys Leu Tyr Leu Val Phe Glu Phe Leu His Gln  
 35 20 25  
 37 <210> SEQ ID NO: 3  
 38 <211> LENGTH: 26  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Rous sarcoma virus  
 41 <400> SEQUENCE: 3  
 42 Arg His Glu Lys Leu Val Gln Leu Tyr Ala Val Val Ser Glu Glu Pro  
 43 1 5 10 15  
 44 Ile Tyr Ile Val Ile Glu Tyr Met Ser Lys  
 45 20 25  
 47 <210> SEQ ID NO: 4  
 48 <211> LENGTH: 30  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: Rous sarcoma virus

ENTERED

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55 <211> LENGTH: 30
56 <212> TYPE: DNA
57 <213> ORGANISM: Rous sarcoma virus
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62 <211> LENGTH: 26
63 <212> TYPE: DNA
64 <213> ORGANISM: Rous sarcoma virus
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66      tgagaagctg gctcaactgt acgcag
68 <210> SEQ ID NO: 7
69 <211> LENGTH: 26
70 <212> TYPE: DNA
71 <213> ORGANISM: Rous sarcoma virus
72 <400> SEQUENCE: 7
73      ctgcgtacag ttgagccagc ttctca
75 <210> SEQ ID NO: 8
76 <211> LENGTH: 24
77 <212> TYPE: DNA
78 <213> ORGANISM: Rous sarcoma virus
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80      ctacatcgtc gctgagtaca tgag
82 <210> SEQ ID NO: 9
83 <211> LENGTH: 24
84 <212> TYPE: DNA
85 <213> ORGANISM: Rous sarcoma virus
86 <400> SEQUENCE: 9
87      ctcagtact cagcgacgat gtag
89 <210> SEQ ID NO: 10
90 <211> LENGTH: 7
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence: Imaginary
95      sequence for enzyme modelling
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98      1             5
100 <210> SEQ ID NO: 11
101 <211> LENGTH: 7
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Imaginary
106      sequence for enzyme modelling

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108     Asp Met Ile Arg Glu Lys Asp
109         1             5
111 <210> SEQ ID NO: 12
112 <211> LENGTH: 8
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence: Optimized
117     substrate for src kinases
118 <400> SEQUENCE: 12
119     Ile Tyr Gly Glu Phe Lys Lys Lys
120         1             5
122 <210> SEQ ID NO: 13
123 <211> LENGTH: 12
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence: Optimized
128     substrate for Abl
129 <400> SEQUENCE: 13
130     Glu Ala Ile Tyr Ala Ala Pro Phe Ala Lys Lys Lys
131         1             5             10
133 <210> SEQ ID NO: 14
134 <211> LENGTH: 40
135 <212> TYPE: PRT
136 <213> ORGANISM: Rous sarcoma virus
137 <220> FEATURE:
138 <223> OTHER INFORMATION: v-Src kinase
139 <400> SEQUENCE: 14
140     Arg His Glu Lys Leu Val Gln Leu Tyr Ala Met Val Ser Glu Glu Pro
141         1             5             10             15
142     Ile Tyr Ile Val Ile Glu Tyr Met Ser Lys Gly Ser Leu Leu Asp Phe
143         20             25             30
144     Leu Lys Gly Glu Met Gly Lys Tyr
145         35             40
147 <210> SEQ ID NO: 15
148 <211> LENGTH: 40
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
151 <220> FEATURE:
152 <223> OTHER INFORMATION: c-Fyn kinase
153 <400> SEQUENCE: 15
154     Lys His Asp Lys Leu Val Gln Leu Tyr Ala Val Val Ser Glu Glu Pro
155         1             5             10             15
156     Ile Tyr Ile Val Thr Glu Tyr Met Asn Lys Gly Ser Leu Leu Asp Phe
157         20             25             30
158     Leu Lys Asp Gly Glu Gly Arg Ala
159         35             40

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161 <210> SEQ ID NO: 16
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163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
165 <220> FEATURE:
166 <223> OTHER INFORMATION: c-Abl kinase
167 <400> SEQUENCE: 16
168   Lys His Pro Asn Leu Val Gln Leu Leu Gly Val Cys Thr Arg Glu Pro
169       1             5             10             15
170   Pro Phe Tyr Ile Ile Thr Glu Phe Met Thr Tyr Gly Asn Leu Leu Asp
171               20             25             30
172   Tyr Leu Arg Glu Cys Asn Arg Gln Glu
173           35             40
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176 <211> LENGTH: 39
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
179 <220> FEATURE:
180 <223> OTHER INFORMATION: CamK II, calcium/calmodulin-dependent kinase
181 <400> SEQUENCE: 17
182   Lys His Pro Asn Ile Val Arg Leu His Asp Ser Ile Ser Glu Glu Gly
183       1             5             10             15
184   His His Tyr Leu Ile Phe Asp Leu Val Thr Gly Gly Glu Leu Phe Glu
185           20             25             30
186   Asp Ile Val Ala Arg Glu Tyr
187           35
189 <210> SEQ ID NO: 18
190 <211> LENGTH: 40
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Cdk2, cyclin-dependent kinase
195 <400> SEQUENCE: 18
196   Asn His Pro Asn Ile Val Lys Leu Leu Asp Val Ile His Thr Glu Asn
197       1             5             10             15
198   Lys Leu Tyr Leu Val Phe Glu Phe Leu His Gln Asp Leu Lys Lys Phe
199           20             25             30
200   Met Asp Ala Ser Ala Leu Thr Gly
201           35             40
203 <210> SEQ ID NO: 19
204 <211> LENGTH: 42
205 <212> TYPE: PRT
206 <213> ORGANISM: Saccharomyces cerevisiae
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Cdc28, cyclin-dependent kinase
209 <400> SEQUENCE: 19
210   Lys Asp Asp Asn Ile Val Arg Leu Tyr Asp Ile Val His Ser Asp Ala
211       1             5             10             15
212   His Lys Leu Tyr Leu Val Phe Glu Phe Leu Asp Leu Asp Leu Lys Arg

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213          20          25          30
214      Tyr Met Glu Gly Ile Pro Lys Asp Gln Pro
215          35          40
217 <210> SEQ ID NO: 20
218 <211> LENGTH: 42
219 <212> TYPE: PRT
220 <213> ORGANISM: Saccharomyces cerevisiae
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Fus3, mitogen-activated kinase
223 <400> SEQUENCE: 20
224      Lys His Glu Asn Ile Ile Thr Ile Phe Asn Ile Gln Arg Pro Asp Ser
225          1          5          10          15
226      Phe Glu Asn Phe Asn Glu Val Tyr Ile Ile Gln Glu Leu Met Gln Thr
227          20          25          30
228      Asp Leu His Arg Val Ile Ser Thr Gln Met
229          35          40

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VERIFICATION SUMMARY

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